STATEMENT OF THE CLAIMS

 (currently amended) A plug for occluding a blood vessel <u>having a severed end and a</u> lumen extending therefrom, the plug comprising:

a first tapered body portion[[,]] having a diameter smaller than that of the lumen of the blood vessel;

a second disc_shaped hollow-resilient body portion depending from attached to the first tapered body portion, the diameter of the second disc_shaped body portion being larger than the diameter of the first tapered body portion and being larger than the diameter of the lumen of the blood vessel, wherein when the first and second body portions are inserted axially into the lumen of the blood vessel adjacent its severed end the wall of the lumen of the blood vessel expands and grasps the second body portion thereof and said plug thereby occludes blood flow through the lumen and out the severed end of the blood vessel; and

means <u>operably coupled to</u> attached to the inner part of the second dise shaped body <u>portion</u>, the means permitting a user to effect a change in the diameter of the second dise shaped hollow body <u>portion</u> to enable the removal of the plug from <u>the severed end</u> of the occluded blood vessel.

2. (currently amended) The occluding plug as claimed in claim 1, wherein: furtherineluding

the means causing the change in diameter of the second body portion includes a third eylindrieal body portion depending from the second attached to the dise shaped body portion, said third cylindrical body providing access to the means for causing the change in diameter of the second disc shaped hollow-body, and a filament attached to the third body portion.

- 3. (currently amended) The occluding plug as claimed in claim + 2, wherein:
- the <u>third body portion is cylindrical</u> means eausing the change in diameter of the dise-shaped body comprise a filament attached to the inner-circumference of the dise-shaped body.
- 4. (currently amended) The occluding plug as claimed in claim 3 2, wherein:

further including a third cylindrical body attached to the disc shaped body, said third cylindrical body portion has at least one including an aperture for securing the filament thereto to provide access to the means for causing the change in diameter of the second disc shaped hollow body.

- (currently amended) The occluding plug as claimed in claim 1, wherein:
 said first body portion has further including a rounded nosepiece attached to said first body.
- (currently amended) The occluding plug as claimed in claim 1, wherein:
 the plug is constructed from the group consisting of silicone, polyurethane and

polyisobutylene-based polymers.

- (currently amended) The occluding plug as claimed in claim 1, further including;
 a longitudinal pilot hole <u>defined by said plug and capable of for receiving a insertion device.</u>
- 8. (currently amended) The occluding plug as claimed in claim 7_a further including; an insertion device <u>capable of for inserting the occluding plug axially</u> into <u>the lumen of</u> the blood vessel <u>adjacent its severed end</u>, the insertion device having a needle <u>that is operably disposed within the pilot hole of the occluding plug, a tubular needle guard surrounding the needle, the tubular needle guard fitting into the pilot hole of the <u>plug, a spring connected to the needle to propel the needle outwards and to thereby urge the plug into the vessel, and a lever operable to compress and decompress the spring.</u></u>
- (currently amended) The occluding plug as claimed in claim † 7, wherein:
 said first body is tapered pilot hole is formed in said first, second and third body portions.
- 10. (currently amended) A kit A plug for occluding a blood vessel comprising:

 the occluding plug of claim 7; and

 a first body, having a largest diameter smaller than that of the blood vessel;

 a second disc shaped hollow resilient second body attached to the first taperedbody, the diameter of the second disc shaped body being larger than the diameter of the
 first tapered body and the diameter of the blood vessel so that upon insertion into a blood

vessel the disc shaped hollow resilient body will distend the blood vessel to hold the plugin place;

means attached to the inner part of the second disc shaped body, the meanspermitting a user to effect a change in the diameter of the second disc shaped hollowbody to, enable the removal of the plug from the occluded blood vessel; and a third bodyportion attached to the disc shaped body, said third body providing access to the meansfor-causing the change in diameter of the second disc shaped hollow-body

an insertion device capable of inserting the occluding plug axially into the lumen of the blood vessel adjacent its severed end, the insertion device having a needle that is operably disposed within the pilot hole of the occluding plug.

- 11. (currently amended) The <u>kit</u> oeeluding plug as claimed in claim 10, wherein;

 the means causing the change in diameter of the <u>second</u> dise shaped body <u>portion</u>
 of the occluding plug eomprise includes a filament attached to the third body <u>portion</u>
 inner circumference of the dise shaped body, the filament causing the <u>second body</u>
 <u>portion</u> dise shaped body to collapse when pulled by a user to permit removal of the
 occluding plug from the severed end of the blood vessel.
- 12. (currently amended) The <u>kit occluding plug</u> as claimed in claim 10 11, wherein: said third body <u>portion</u> includes at least one aperture through which the filament extends.
- 13. (currently amended) The kit occluding plug as claimed in claim 10, wherein:

the first body portion of the occluding plug has further including a rounded nosepiece attached to said first body.

- 14. (currently amended) The <u>kit occluding plug</u> as claimed in claim 10, wherein: the <u>occluding</u> plug is constructed from the group consisting of silicone, polyurethane and polyisobutylene-based polymers.
- (currently amended) The <u>kit occluding plug</u> as claimed in claim + <u>10</u>, wherein: said first body <u>portion of said occluding plug</u> is conical.
- 16. (currently amended) The <u>kit occluding plug</u> as claimed in claim 10, wherein: said <u>occluding plug includes a</u> third body is eylindrical portion depending from said second body portion.
- 17. (currently amend) The <u>kit occluding plug</u> as claimed in claim 10 16, wherein: further-including a longitudinal pilot hole for receiving a insertion device said third body portion of said occluding plug is cylindrical.
- 18. (currently amended) The <u>kit occluding plug</u> as claimed in claim 17 further including 10, wherein:

<u>said</u> an insertion device for inserting the plug into the blood vessel, the insertion device <u>includes at least one of having a needle</u>; i) a tubular needle guard surrounding the needle, the tubular needle guard fitting into the pilot hole of the occluding plug,

 ii) a spring connected to the needle to propel the needle outwards and to thereby urge the <u>occluding</u> plug into <u>the lumen of</u> the blood vessel <u>adjacent its severed</u> end, and

iii) a lever operable to propel the needle outwards and to thereby urge the occluding plug into the lumen of the blood vessel adjacent its severed end compress and decompress the spring.

(new) The occluding plug as claimed in claim 17, wherein:
 said pilot hole is formed in said first, second and third body portions.

20. (new) The kit according to claim 8, wherein:

the insertion device includes at least one of

- i) a tubular needle guard surrounding the needle, the tubular needle guard fitting into the pilot hole of the occluding plug,
- ii) a spring connected to the needle to propel the needle outwards and to thereby urge the occluding plug into the lumen of the blood vessel adjacent its severed end, and
- iii) a lever operable to propel the needle outwards to thereby urge the occluding plug into the lumen of the blood vessel adjacent its severed end.